NPIC/TSSG/RED-1983-69 31 December 1969

MEMORANDUM FOR: Chief, Technical Services & Support Group

SUBJECT

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Purchase of an Electron Microscope

l. For the past several years we have been renting through electron microscope, Model with an ultimate resolution of 8 A. This instrument has been used to study grain structures of operational material and any other task requiring greater magnification than obtainable from optical microscopes. It also has an ability to take three dimensional high-magnification photographs of developed and un-developed silver halide crystals. The study of grain morphology (structure) as related to development conditions or developer composition is necessary to completely understand the nature of the final image. The comparison of the difference between dual gamma viscous versus interrupted spray processing should include the grain morphology of each system. The electron microscope would be very useful in this study. This instrument has a magnification capability ranging from 1,000% to 100,000% which is more than sufficient for our needs.

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Declass Review by NIMA/DOD

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	3. The list price of this particular instrument is
	but, because the only available instrument from
25X1	was a demonstrator, was able to obtain
	it at a reduced price of approximately We have paid them
25X1	approximately in rental for the equipment, with an option
	out of use on the image Analysis Program. We can number this
	instrument at an approximate cost of (to be negotiated with
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	4. Although the instrument appears to be quite complex, I
25X1	nave been assured by who is the important of this
	piece of equipment, that they are generally operated by technicians
	is the man is reasonably intelligent there should be no problem in
	training him. Although formal training courses are not provided by
25X1	they are willing to work with us to help train
	the man we choose to operate the instrument. It has been suggested
	that we send a man to one of the local government agencies to work
	with one of their knowledgeable operators and obtain training at a
0EV4	minimum cost to us. One man that has been suggested to help us is
25X1	at Beltsville Research Laboratories, Department of
	Agriculture. I feel certain through (cleared
	TKH, SI) who is the Administrator for Research for the Department of
	Agriculture, we can arrange for training one of our junior physical scientists.
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	5. It is recommended that the Laboratory be permitted to pur-
25X1	chase the electron microscope at a cost of approximately
25X1	This purchase to be conditional upon the instrument being
25X1	examined by and certified to be in good operating
20/(1	condition. It is further requested that we be allowed to spend
25X1	approximately for a yearly maintainance service contract with
25X1 25X1	This will include all parts and labor costs to
	keep this instrument in top working condition at all times. This
	instrument was not included in the FY-70 budget because its impact
	and utilization on dry-silver and non-silver emulsions had not been
	Tully confirmed at the time of the FY-70 budget submission. Because
	of the leasing arrangement, the instrument most probably will not be
	available for purchase in FY-71: therefore, it ampears essential to act
	now. In order to fund the instrument, RED has reviewed it's unobligated
	Missellaneaux Carrellan II

Miscellaneous Services Funds and recommends the transfer of the required

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from our Miscellaneous Services Funds currently classified as "other". This approach has been coordinated with PPBS; actual reallocation would then take place during our mid-year review.

Chief, Research & Engineering Division

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Next 2 Page(s) In Document Exempt